

## Author Index

### Canadian Journal of Plant Science, Volume 82, 2002

- Ablett, G.R., **133, 143, 144**  
Acharya, S.N., **95, 135, 140, 142, 143, 149, 150, 151, 457**  
Ahmadzadeh, A., **145**  
Ali, I., **231**  
Andersen, L., **751, 753**  
Anderson, T., **133, 138, 144**  
Andrews, T., **137**  
Angadi, S.V., **43, 681**  
Angers, D.A., **731**  
Arganosa, G.C., **267**  
Armstrong, K., **134**  
Asay, K.H., **329**  
Asiedu, S.K., **232**  
Atlin, G.A., **421**  
Auclair, J., **133**  
Awada, T., **349**
- Bai, Y., **146**  
Bailey, L.D., **629**  
Bakker, C.J., **227, 232**  
Ball-Coelho, B., **142, 149**  
Bamford, K.C., **53**  
Bandara, M., **231**  
Banerjee, M.R., **357**  
Bansal, V.K., **559**  
Barnett, G.M., **135, 143**  
Baron, V., **555**  
Baum, B.R., **35**  
Beauchamp, E.G., **141, 148**  
Beckie, H.J., **463, 473, 625, 797**  
Bélanger, G., **135, 136, 139, 148, 150, 319, 383, 621, 731**  
Benichou, M., **177**  
Beulah, M., **225**  
Biederbeck, V.O., **645**  
Bijl, M., **437**  
Björnsson, I., **144**  
Blackwell, B., **513**  
Blake, T.J., **195**  
Blomquist, L.K., **153**  
Bogen, A.D., **721**  
Boland, G.J., **133, 825**  
Bolinder, M.A., **731**  
Booth, B., **142**  
Bootsma, A., **549**  
Bork, E.W., **365, 721**  
Boswall, A.L., **89**  
Brazolot, J., **231**  
Brégard, A., **136, 139, 150**
- Briggs, K.G., **144**  
Brown, D.M., **549**  
Brown, J., **579**  
Brown, K.R., **629**  
Bruin, A., **142, 149**  
Buchwaldt, L., **103, 105, 107, 109, 111**  
Buckley, W.T., **27**  
Bullied, W.J., **53, 291**  
Burnett, B., **7**  
Burrows, V.D., **83**  
Buss, T.J., **282, 291**  
Busso, C.A., **539**  
Byers, S.D., **481**
- Çağ, S., **191**  
Caldwell, C., **228, 229**  
Caldwell, C.A., **421**  
Caldwell, C.D., **443, 551, 653**  
Caldwell, C.E., **142**  
Caldwell, I., **232**  
Caldwell, T., **228**  
Cao, W., **134**  
Caprio, J.M., **755**  
Carter, M.R., **785**  
Castonguay, Y., **621**  
Cathcart, J., **150**  
Cavers, P.B., **235**  
Cepulis, D.D., **227**  
Cerkauskas, R., **225**  
Cessna, A.J., **257, 485**  
Çetin, E., **191**  
Chalifour, F.-P., **621**  
Chandler, K., **142**  
Chang, K.F., **371, 701**  
Charmley, E., **139**  
Chatson, B., **513**  
Chen, Q., **451**  
Chong, C., **226**  
Choo, T.M., **93, 551, 138**  
Chowdary, M., **134**  
Chu, G., **140**  
Claessens, A., **135**  
Clark, E.A., **139**  
Clarke, F.R., **27, 299, 507, 661**  
Clarke, J.M., **27, 299, 415, 507, 661**  
Clayton, G., **555**  
Clayton, G.W., **639**  
Clements, D.R., **142, D.R., 235**  
Cline, J., **165**  
Cline, J.A., **229, 437**  
Cloutier, D.C., **855**  
Cohen, R.D.H., **747**  
Collins, L.L., **825**
- Conner, R.L., **451**  
Conway, P.M., **599**  
Costa, C., **146**  
Coulman, B., **693**  
Coulombe, J., **229**  
Cousineau, J., **230, 231**  
Couture, L., **621**  
Crouse, M.D., **139**  
Cutforth, H.W., **681**
- Dale, A., **231**  
Danforth, B.L., **136**  
Darbyshire, S.J., **145**  
Darroch, B.A., **95**  
Darwent, A.L., **485**  
Davis, A.R., **203**  
Debnath, S.C., **230**  
DeEll, J., **230, 231**  
Deen, B., **147, 148**  
Degenhardt, D.F., **559**  
Demianyk, C.J., **591**  
Deng, Y., **146**  
DePauw, R.M., **299, 415, 507**  
DerkSEN, D.A., **137, 307**  
DerkSEN, T., **138**  
Deschenes, M., **230**  
Desjardins, Y., **229**  
DeVos, M., **587, 589**  
Deyl, J., **83**  
Dhont, C., **621**  
Dion, Y., **137**  
Donkor, N.T., **365**  
Dossall, L.M., **599**  
Drapeau, R., **148, 319, 621**  
Drury, C., **138**  
Dueck, S., **103, 105, 107, 109, 111**  
Duinker, P.N., **136**  
Dumois, R., **231**  
Dutilleul, P., **139**  
Duzan, H., **147**  
Dwyer, L.M., **137**
- Eaton, L., **229**  
Eaton, L.J., **225**  
Eigenbrode, S.D., **579**  
El-Iklil, Y., **177**  
Embree, C.G., **228**  
Emery, R.J.N., **567**  
Engel, R., **273**  
Entz, M.H., **43, 53, 137, 141**  
Essah, S.Y.C., **1**  
Estabrooks, E.N., **227**  
Etienne, M., **138**

Page numbers in bold refer to abstracts.

- Fairey, N., 555  
 Fairey, N.A., 401, 709  
 Falk, D.E., 134, 138, 144  
 Falk, K.C., 123  
 Fedak, G., 134, 138, 144  
 Fernandez, M.R., 415, 507  
 Fernández, O.A., 539  
 Fillmore, S.A.E., 139  
 Fisher, K.H., 227  
 Flemmer, A.C., 539  
 Flore, N.A., 21  
 Foroutan-pour, K., 139  
 Fowler, D.B., 407  
 Fox, S.L., 153  
 Francis, A., 803  
 Fraser, H., 229  
 Fredeen, A., 136  
 Fredeen, A.F., 136  
 Fredeen, A.H., 136  
 Frégeau-Reid, J., 137, 513  
 Friebel, D.R., 135, 143  
 Friesen, G., 135, 150  
 Froese, N.T., 137  
 Furness, N.H., 789
- Gagnon, L., 675  
 Gaidauskas-Scott, A., 140  
 Gan, Y.T., 531  
 Garabagi, F., 230  
 Gau, M., 395  
 Gaudet, D.A., 701  
 Gaudiel, R., 103, 105, 107, 109, 111  
 Georgallas, A., 136  
 Gijzen, M., 140  
 Gill, K.S., 645, 665  
 Glenn, D.M., 217  
 Goodwin, P.H., 133  
 Gossen, B.D., 371, 687  
 Graf, R.J., 451  
 Grant, C., 137  
 Grant, C.A., 629  
 Gray, B., 232  
 Groleau, Y., 230, 231  
 Guak, S., 225  
 Guarino, D., 231  
 Gugel, R.K., 123  
 Gupta, U.C., 561
- Haji, H.M., 587, 589  
 Hamel, C., 146, 855  
 Hampson, C.R., 165  
 Hanna, L.I., 499  
 Hao, X., 225, 765, 771  
 Harapiak, J., 21  
 Harker, K.N., 481, 485, 639  
 Harper, V., 143  
 Hasselback, P., 481  
 Havard, P., 229  
 Hawkins, G.P., 559
- Hayhoe, H.N., 149  
 Herrero, B., 75  
 Hill, B.D., 7, 481  
 Ho, K.M., 93, 138, 551  
 Hoekstra, G.J., 145  
 Hogg, T., 639, 645  
 Holm, F.A., 797  
 Hong, S.C., 232  
 Hooper, D., 228  
 Hormis, Y.A., 99, 101, 425  
 Howard, R.J., 371, 701  
 Huang, H., 146  
 Hucl, P., 85, 127, 129, 411  
 Hudson, R.J., 365  
 Hughes, B.R., 231  
 Hume, D.J., 139, 140  
 Hunt, L.A., 149  
 Hutcheson, D.S., 123  
 Hwang, S.F., 371, 701
- Inaba, D.J., 481  
 Isobe, S., 395  
 Ivany, J.A., 249, 137, 617  
 Izaurrealde, C., 150
- Jannasch, R., 136  
 Janovicek, K.J., 147, 148  
 Jarecki, M.K., 226  
 Jayas, D.S., 591  
 Jefferson, P.G., 67  
 Jensen, K.B., 329  
 Jensen, K.I.N., 781  
 Johnson, D.A., 35, 329  
 Johnson, E., 645  
 Johnson, E.N., 15, 611, 639  
 Johnston, A., 137  
 Johnston, A.M., 15, 521, 639, 645  
 Ju, H.-Y., 232
- Karamanos, R.E., 21, 138  
 Karrou, M., 177  
 Katepa-Mupondwa, F., 337  
 Kay, B.D., 141, 145  
 Khanizadeh, S., 230, 231  
 Kibite, S., 555  
 Kiehn, F.A., 103, 105, 107, 109, 111  
 King, J.R., 135, 136, 150  
 Kirkland, K.J., 15, 485, 611  
 Klemow, K.M., 235  
 Knox, R.E., 415, 661  
 Kohn, L.M., 133  
 Konzak, C.F., 83  
 Korchinski, A., 7  
 Kulfu, K., 140  
 Kulshrestha, S.N., 739  
 Kutcher, H.R., 645  
 Kuzyk, A.D., 451
- Lada, R., 228, 229  
 Lafond, G., 645
- Lafond, G.P., 639  
 Lafond, J., 150  
 Lajeunesse, J., 150  
 Langenberger, M.W., 203  
 Lapen, D.R., 149  
 Lardner, H.A., 747  
 Laroche, A., 451  
 Larsen, J., 134  
 Laurens, F., 231  
 Laverdière, M.R., 731  
 Lawrence, R.L., 273  
 Leblanc, M.L., 855  
 Lee, E.A., 138, 140, 143, 145, 146  
 Lefkovitch, L.P., 709  
 Lespinasse, Y., 231  
 Lester, H.R., 149  
 Levasseur, A., 230  
 Leyshon, A.J., 67  
 Li, H., 451  
 Li, Q., 579  
 Liu, J., 133  
 Liu, P.H., 531  
 Liu, W., 148  
 Loepky, H.A., 625  
 Looney, N.E., 225  
 Luedtke, A.N., 225  
 Lukow, O., 137
- Ma, B.L., 137  
 Mabood, F., 147  
 MacKendrick, C.A., 136  
 MacLeod, J.A., 141, 142, 653  
 Main, M., 136  
 Malhi, S.S., 665  
 Martens, G., 137  
 Martin, R., 136  
 Martin, R.A., 93, 551, 138  
 Martin, R.C., 136  
 Mather, D., 135  
 Mather, D.E., 145  
 Matus-Cádiz, M., 85, 127, 129, 411  
 May, W.E., 639, 645  
 McCaig, T.N., 299, 415  
 McCartney D., 555  
 McCaughey, W.P., 337  
 McClay, A.S., 861  
 McConkey, B.G., 681  
 McConnell, J.T., 273, 639  
 McCuistion, W.L., 499  
 McDiarmid, G., 83  
 McDonald, C.L., 307, 531  
 McDonald, M.R., 226  
 McGinn, S.M., 7  
 McHughen, A.G., 425  
 McKenzie, R., 137  
 McKeown, A., 226  
 McKeown, A.W., 227, 232  
 McLeod, J.G., 415  
 McRae, K.B., 383

- McRae, K.D., 139  
 McVetty, P.B.E., 435  
 Mellish, A., 693  
 Michaels, T., 134  
 Michaels, T.E., 134  
 Michaud, R., 135, 136, 139, 148, 150,  
     319, 383, 731  
 Mihelcic, N., 143  
 Miki, B., 140  
 Miller, P.R., 273, 307, 531, 645, 681  
 Miller, S., 140  
 Minkevich, J.M., 591  
 Mir, Z., 135, 140, 151, 457  
 Mishra, S., 587, 589  
 Montani, T., 539  
 More, A.F., 149  
 Morrall, R.A.A., 103, 105, 107, 109,  
     111  
 Moser, L.E., 349  
 Moyer, J.R., 89, 135, 140, 151, 457,  
     481  
 Mrabet, R., 177  
 Munier-Jolain, N.G., 567  
 Murray, J., 134, 143  
 Myhre, C.D., 625  
 Nadeau, P., 621  
 Najda, H., 701  
 Najda, H.G., 687  
 Nass, H., 137  
 Nass, H.G., 142, 421, 653  
 Nazarko, O.M., 137  
 Neumann, S., 825  
 Neuteboom, C.E., 229  
 Nichols, D.S., 228  
 Nielsen, G.A., 273  
 Nkao, R., 229  
 Nleya, T.M., 267  
 Norvell, W.A., 27  
 Nowak, J., 229  
 Nybo, B., 645  
 O'Donovan, T., 150  
 O'Donovan, J.T., 861  
 O'Sullivan, J., 261  
 Olson, K.C., 329  
 Omelian, J., 139, 140  
 Orshinsky, B.R., 135, 143  
 Pageau, D., 150  
 Palavan-Ünsal, N., 191  
 Pando, V., 75  
 Papadopoulos, A.P., 771  
 Papadopoulos, Y., 142, 653  
 Papadopoulos, Y.A., 139  
 Park, S.J., 134  
 Patterson, S.J., 142, 149, 150  
 Pauls, K.P., 133, 134, 143  
 Peng, H., 739  
 Philipp, O., 751, 753  
 Pietrzak, L.N., 513  
 Poysa, V., 140  
 Poysa, V.W., 133, 143  
 Price, M., 139  
 Pritchard, M.K., 227  
 Prithiviraj, B., 146, 147  
 Purvis, P., 226  
 Puterka, G.J., 217  
 Quamme, H.A., 755  
 Rabieifar, A.R., 133  
 Racz, G.J., 629  
 Rahman, S., 144  
 Rajasekaran, L.R., 195, 228, 443  
 Rajcan, I., 133, 143, 144  
 Rashid, K.Y., 99, 101, 425  
 Rawluk, C., 137  
 Reddin, J., 249  
 Reece, P.E., 349  
 Reinprecht, Y., 133, 143  
 Richer, C., 169  
 Rimmer, S.R., 435  
 Rioux, J.A., 169  
 Rodd, V., 551  
 Romo, J.T., 739  
 Ross, S.M., 150  
 Rowland, G.G., 99, 101, 425  
 Roy, R.C., 142, 149  
 Russell, E., 231  
 Sadasivaiah, R.S., 415  
 Salon, C., 567  
 San Martin, R., 75  
 Sanderson, J.B., 561  
 Sanderson, K.R., 225, 561, 785  
 Sanford, K., 165  
 Saulnier, M., 675  
 Savard, M., 138  
 Sawai, A., 395  
 Sawan, Z.M., 499  
 Scarth, R., 435  
 Schaafsma, A., 134, 143  
 Schaafsma, A.W., 144  
 Schacht, W.H., 349  
 Schellenberg, M.P., 357  
 Scott-Dupree, C., 226  
 Shieill, K.J., 157  
 Shirtliffe, S.J., 521  
 Shresthra, A., 142  
 Sikkelma, P.H., 261  
 Singh, A., 337  
 Singh, M., 149  
 Singh, S.P., 491  
 Slingerland, K., 229  
 Slinkard, A., 113, 117, 121  
 Slinkard, A.E., 103, 105, 107, 109,  
     111, 429, 433  
 Sloan, A., 751, 753  
 Smith, D.L., 139, 141, 146, 147  
 Smith, S.R., 135, 150  
 Smith, S.R., Jr., 53, 337  
 Soleimani, V.D., 35  
 Soroka, J.J., 687  
 Souleimanov, A., 146, 147  
 Spaner, D., 149, 221  
 Sparry, E., 138  
 Specht, E.G., 781  
 Staebler, M.A., 145  
 Stevenson, F.C., 15, 463, 531, 611  
 Stewart, G., 148  
 Stewart-Wade, S.M., 825  
 Stiles, A., 228, 443  
 Stoskopf, N.C., 1  
 St-Pierre, R.G., 157  
 Stringam, G.R., 144, 559  
 Strommer, J., 230  
 Sturz, A.V., 229  
 Sullivan, J.A., 227, 231  
 Sunohara, M.D., 149  
 Surrette, M.A., 229  
 Susko, D.J., 803  
 Swanton, C.J., 142, 150  
 Swartz, H.J., 231  
 Tamburic-Ilinic, L., 144  
 Taylor, J.H., 133  
 Terán, H., 491  
 Theriault, R., 139  
 Thiagarajah, M.R., 559  
 Thomas, A.G., 463  
 Thomas, J.E., 135, 142, 149, 150  
 Thomas, K.L., 133  
 Thomas, K.M., 139  
 Threadgill, P.F., 235  
 Timlick, B., 591  
 Tinker, N.A., 140  
 Todd, A.G., 149  
 Tollenaar, M., 139, 145, 146, 148  
 Townley-Smith, L., 485  
 Tremblay G., 621  
 Tremblay, G.F., 135, 148, 319, 383  
 Tremblay, G.J., 675  
 Tremblay, N., 229  
 Trevisan, L.M., 136  
 Turnbull, G.D., 371, 701  
 Tworkoski, T.J., 217  
 Tyler, R.T., 267  
 Uchiyama, K., 395  
 Ulrich, D., 681  
 Upadhyaya, M.K., 789  
 Valencia-Barrera, R.M., 75  
 Valentini, O., 139  
 Vallejos, C.E., 134  
 Van Acker, R.C., 137

- Vanden Heuvel, J.E., 227  
Vandenberg, A., 103, 105, 107, 109,  
111, 113, 117, 121, 267, 429, 433  
VandenBygaart, A.J., 141  
Vera, C., 103, 105, 107, 109, 111  
Vessey, J.K., 282, 291  
Vigneux, J., 135, 143  
Voisin, A.-S., 567  
Voldeng, H.D., 137  
Voroney, R.P., 226  
Vyn, T.J., 147, 148
- Waddington, J., 67, 307  
Wagner-Riddle, C., 142  
Wahab, J., 103, 105, 107, 109, 111  
Wajahatullah, M.K., 146, 147  
Walker, D., 551  
Walker, D.F., 142, 421, 653
- Walker, J.A., 135  
Wang, D., 146  
Wang, H., 299, 507  
Warkentin, T., 113, 121, 751, 753  
Warkentin, T.D., 253  
Warner, J., 225, 765  
Warwick, S.I., 803  
Waterer, D., 185, 583  
Weaver, S., 138  
Wees, D., 226, 232  
Weir, A., 143  
Welacky, T., 138  
Westerveld, S., 226  
White, N.D.G., 591  
White, P.H., 149  
Willms, W.D., 721  
Woosaree, J., 95  
Wright, S.B.M., 747
- Xue, A., 751, 753  
Xue, A.G., 253
- Yamaguchi, H., 395  
Yan, W., 134  
Yang, R.-C., 599  
Yang, X.M., 141  
Ying, J., 145, 146  
Young, D.S., 148  
Yu, K., 133, 134, 140, 143
- Zand, E., 473, 625  
Zandstra, J.W., 233  
Zatlynny, A.M., 157  
Zhang, T., 225  
Zhang, T.Q., 138, 765  
Zhao, G., 144  
Zhou, X., 146, 147

# Subject Index

Canadian Journal of Plant Science, Volume 82, 2002

- Acclimation  
  AMBIOL and drought acclimation, 195
- Aceria tosicella*  
  resistance to rust, mildew and wheat curl mite, 451
- Acetylsalicylic acid  
  salicylates and germination promotion at low temperature, 443
- Acid detergent fibre  
  weed management in perennial cereal rye, 457
- Acifluorfen  
  herbicide injury and planting date affect soybean yield, 249
- Addition lines  
  resistance to rust, mildew and wheat curl mite, 451
- Alfalfa  
  alfalfa seedbed preparation, 371  
  fusarium in alfalfa harvested in autumn, 621  
  grazing tolerance of alfalfa, 337  
  IVDMD and RUP in alfalfa leaves and stems, 383  
  short-lived intercrop forages affect perennial forage yields, 67
- Alfalfa (single year)  
  grain yield and N benefits from single-year legumes, 53
- Alpine bluegrass  
  AEC Glacier alpine bluegrass, 95
- Alternative cropping practice  
  N fertilizer placement for canola, 15
- Amaranthus retroflexus*  
  susceptibility of weeds to UV-B radiation, 789
- Aminomethylphosphonic acid residues  
  glyphosate residues in field pea, barley and flax, 485
- Amplified restriction fragment polymorphism  
  identification of Canadian durum wheat cultivars, 35
- Antioxidant  
  AMBIOL and drought acclimation, 195
- Apple, 227, 231  
  apple fruit size preference, 165  
  chemical thinning of apples unaffected by spray timing, 437
- Apple breeding, 231
- Apple cider, 231
- Application time  
  correcting S deficiency in canola in the growing season, 665
- Apron (metalaxyd)  
  inoculant and seed fungicide for field pea, 645
- Atmospheric deposition  
  herbicides in rainfall affecting sensitive crops, 481
- Avena fatua*  
  competitiveness of canola with wild oat, 473  
  herbicide-resistant wild oat, 463  
  wild oat response to herbicides in canola, 797
- Avena sativa* (see Oat)
- Bacillus cereus* UW85  
  effects of *Bacillus cereus* UW85 on grain legumes, 283, 291
- Backcross progeny  
  backcross progenies of *T. medium* × *T. pratense*, 395
- Barley  
  barley mixtures and yield, 1  
  glyphosate residues in field pea, barley and flax, 485  
  timing of glyphosate application in direct-seeding systems, 611
- Barley, feed  
  AC Maple barley, 93  
  AC Vision barley, 551  
  effects of tarty buckwheat on barley, 861
- Barley, six-rowed  
  AC Maple barley, 93
- Bean, common  
  bean response to hydrophobic mineral particles, 217  
  drought resistance in common bean, 491  
  effects of *Bacillus cereus* UW85 on grain legumes, 291, 283
- Bee, foraging, honey  
  caraway flowering and honey bee foraging activity, 203
- Bentazon  
  herbicide injury and planting date affect soybean yield, 249
- Berlese funnel  
  detection of *Cryptolestes ferrugineus* in stored grain, 591
- Biocontrol, 232
- Biomass  
  agronomic performance of different stature sunflower, 43
- Biomass, root  
  pea root biomass estimation using xylem sap Na<sup>+</sup>, 567  
  shoot to root ratios of forage crops, 731
- Blackleg resistant  
  Kelsey summer rape, 559
- Blossom-end rot  
  row arrangement and plant density of processing tomato, 765
- Blueberry, 225  
  lowbush blueberry response to hexazinone, 781
- Blueberry, wild, 225
- Bluegrass, alpine  
  AEC Glacier alpine bluegrass, 95
- Blueweed  
  *Echium vulgare* L., 235
- Boll production  
  climatic factor effects on cotton production, 499
- Boll retention  
  climatic factor effects on cotton production, 499
- Boron  
  rutabaga brown-heart control, 561
- Botanical origin  
  characterization of honeys, 75
- Brassica juncea* (L.)  
  myrosinase activity in *B. juncea* progenies, 579
- Brassica napus* (L.) (see Canola)
- Brassica napus* ssp. *rapifera* (Metzg.)  
  Sinsk (see Rutabaga)
- Brassica rapa* (L.) (see Canola)
- Breeding material  
  backcross progenies of *T. medium* × *T. pratense*, 395
- Broadcast seeding  
  P fertility of fall and spring seeded canola, 21
- Brome, smooth  
  *Bromus-poa* response to defoliation, 365

Page numbers in bold refer to abstracts.

- Bromegrass, meadow  
winter survival of grasses, 701
- Bromoxynil resistance  
Renegade BX summer oilseed rape, 435
- Bromus inermis* (Leyss.) (see Brome, smooth)
- Brown-heart  
rutabaga brown-heart control, 561
- Bunt resistance  
AC2000 hard white spring wheat, 415
- Burning  
residue management increases seed yield, 687
- Cabbage, 226
- Cabbage, Chinese, 225
- Calcite  
effect of gypsum on rutabaga, 785
- Calcium  
effect of gypsum on rutabaga, 785
- Canada, 227  
*Taraxacum officinale* G. H. Weber ex Wiggers, 825
- Canada thistle  
herbicide effect on Canada thistle varieties, 625
- Canadian prairies  
neural networks to predict wheat maturity, 7
- Canadian Western Red Spring yield and dry matter of recent Canadian spring wheat cultivars, 299
- Canning quality  
genotype and environment effect on chickpea canning quality, 267
- Canola  
competitiveness of canola with wild oat, 473  
correcting S deficiency in canola in the growing season, 665  
N fertilizer placement for canola, 15  
N management and tillage effects in canola, 629  
P fertility of fall and spring seeded canola, 21  
sulphur and root maggots in canola, 599  
wild oat response to herbicides in canola, 797
- Capsella bursa-pastoris* L.  
susceptibility of weeds to UV-B radiation, 789
- Caraway  
caraway flowering and honey bee foraging activity, 203
- Carbon inputs, annual shoot to root ratios of forage crops, 731
- Carrot  
AMBIOL and drought acclimation, 195  
salicylates and germination promotion at low temperature, 443
- Carum carvi* (see Caraway)
- Chemical thinning  
chemical thinning of apples unaffected by spray timing, 437
- Chenopodium album*  
susceptibility of weeds to UV-B radiation, 789
- Cherry  
flower and fruit loss in cherry, 157
- Chestnut, 232
- Chickpea  
inoculation failure of field pea and chickpea, 273
- Chickpea, Kabuli  
genotype and environment effect on chickpea canning quality, 267
- Chinese cabbage, 225
- Chlorophyll, 226
- Chlorophylle  
metabolisme du stress salin chez la tomate, 177
- Choke cherry  
flower and fruit loss in cherry, 157
- Cicer arietinum*  
emergence and yields of chickpea and dry pea, 531  
genotype and environment effect on chickpea canning quality, 267
- Cider production, 231
- Cirsium arvense*  
herbicide effect on Canada thistle varieties, 625
- Climate change  
weather and grape production, 755
- Clipping  
residue management increases seed yield, 687
- Cloning  
identification of Canadian durum wheat cultivars, 35
- Clover, red  
N management of spring milling wheat, 653
- Clubroot  
rutabaga in eastern Canada, 221
- Combine  
plot combine modified for harvesting single rows, 153
- Combining  
determination of moisture in grass seeds, 401
- Common bean  
effects of *Bacillus cereus* UW85 on grain legumes, 291  
drought resistance in common bean, 491
- Common scab  
soil pH and potato scab, 583
- Compas®  
Renegade BX summer oilseed rape, 435
- Competition  
competitiveness of canola with wild oat, 473
- Compost leachate, 226
- Conservation tillage  
N management and tillage effects in canola, 629
- Consumer preference  
apple fruit size preference, 165
- Controlled conditions  
pea root biomass estimation using xylem sap Na<sup>+</sup>, 567
- Coriandrum sativum* L., 231
- Corn  
sweet corn tolerance to primisulfuron, 261
- Corn spurry  
banded herbicides in potatoes, 617
- Cotton  
climatic factor effects on cotton production, 499
- Cotyledon  
myrosinase activity in *B. juncea* progenies, 579
- Cotyledon growth  
growth response to meta-topolin, 191
- Creeping foxtail  
foxtail barley suppression, 89
- Creeping red fescue  
winter survival of grasses, 701
- Crested wheatgrass  
morphological characteristics of crested wheatgrass, 693
- Croissance  
rusticité et croissance de *Thuja occidentalis* L. et de cinq cultivars, 169
- Crop density  
chemical thinning of apples unaffected by spray timing, 437
- Crop heat units  
moisture in maize kernels at physiological maturity, 549
- Crop maturity  
P fertility of fall and spring seeded canola, 21

- Crop protection  
bean response to hydrophobic mineral particles, 217
- Crop sequence  
cropping sequence affects wheat productivity, 307
- Cropping practice, alternative  
N fertilizer placement for canola, 15
- Cropping system  
grain yield and N benefits from single-year legumes, 53
- Crown diameter  
morphological characteristics of crested wheatgrass, 693
- Crude protein  
*Bromus-poa* response to defoliation, 365
- Cryptolestes ferrugineus*  
detection of *Cryptolestes ferrugineus* in stored grain, 591
- Cultivar  
rusticité et croissance de *Thuja occidentalis* L. et de cinq cultivars, 169
- sweet corn tolerance to primisulfuron, 261
- Cultivar description  
AC2000 hard white spring wheat, 415
- AC Grandview winter wheat, 421
- AC Maple barley, 93
- ACS-C7 summer turnip rape, 123
- AEC Glacier alpine bluegrass, 95
- CDC Arras flax, 99
- CDC Bethune flax, 101
- CDC Glamis lentil, 103
- CDC Grandora lentil, 105
- CDC Handel field pea, 117
- CDC Minuet field pea, 113
- CDC Montero field pea, 121
- CDC Mozart field pea, 429
- CDC Normandy flax, 425
- CDC Raptor winter wheat, 407
- CDC Robin lentil, 111
- CDC Sovereign lentil, 107
- CDC Valour flax, 427
- CDC Vantage lentil, 109
- CDC Verdi field pea, 433
- CT144 flue-cured tobacco, 587
- CT572 flue-cured tobacco, 589
- DS Admiral field pea, 751
- DS Dominator field pea, 753
- Kelsey summer rape, 559
- Murphy oat, 555
- Cultivation  
economics of clubmoss control, 739
- Cylindrocarpus*, 232
- Dandelion  
*Taraxacum officinale* G. H. Weber ex Wiggers, 825
- Decision support system  
effects of tartary buckwheat on barley, 861
- Defoliation  
root growth, appearance and disappearance in perennial grasses, 539
- rough fescue (*Festuca campestris* Rydb.) response to heat injury, 721
- Delia floralis*  
sulphur and root maggots in canola, 599
- Delia radicum*  
sulphur and root maggots in canola, 599
- Densité de peuplement  
effet de la densité de peuplement sur soya, 675
- Digestibility  
weed management in perennial cereal rye, 457
- 2,6-dihydroxybenzoic acid  
salicylates and germination promotion at low temperature, 443
- Direct seeding  
N fertilizer placement for canola, 15
- N management and tillage effects in canola, 629
- Disease, 232
- Diversification crops, 232
- Dommages hivernaux  
rusticité et croissance de *Thuja occidentalis* L. et de cinq cultivars, 169
- Dormant  
N fertilizer placement for canola, 15
- Drought  
AMBIOL and drought acclimation, 195
- Drought resistance  
in common bean, 491
- Dry matter digestibility  
IVMD and RUP in alfalfa leaves and stems, 383
- Dry matter production  
AMBIOL and drought acclimation, 195
- Dry weight distribution  
bean response to hydrophobic mineral particles, 217
- Durum wheat  
identification of Canadian durum wheat cultivars, 35
- Dwarf sunflower  
agronomic performance of different stature sunflower, 43
- Early generation yield test  
drought resistance in common bean, 491
- Early maturity  
Kelsey summer rape, 559
- Early-season weed control  
timing of glyphosate application in direct-seeding systems, 611
- Echinacea*, 232
- Echium vulgare* L., 235
- Elemental sulphur  
effect of gypsum on rutabaga, 785
- sulphur and root maggots in canola, 599
- Elymus trachycaulus*  
short-lived intercrop forages affect perennial forage yields, 67
- Elytrigia repens* L. (Nevski)  
banded herbicides in potatoes, 617
- Emergence, relative time of  
effects of tartary buckwheat on barley, 861
- Environment  
genotype and environment effect on chickpea canning quality, 267
- Evapotranspiration  
stubble height effects on pulse yields, 681
- Evolution, 227
- Expression of resistance  
resistance to rust, mildew and wheat curl mite, 451
- F<sub>2</sub>-derived family selection  
drought resistance in common bean, 491
- Faba bean  
metribuzin and trifluralin residues in faba bean, 257
- Fagopyrum tataricum*  
effects of tartary buckwheat on barley, 861
- Fanweed  
*Thlaspi arvense* L. (updated), 803
- Feed barley  
AC Maple barley, 93
- AC Vision barley, 551
- Fertile pods  
emergence and yields of chickpea and dry pea, 531
- Festuca campestris* Rydb.  
rough fescue (*Festuca campestris* Rydb.) response to heat injury, 721

- Field  
pea root biomass estimation using xylem sap  $\text{Na}^+$ , 567
- Field pea (see Pea)
- Field pennycress  
*Thlaspi arvense* L. (updated), 803
- Flax  
CDC Arras flax, 99  
CDC Bethune flax, 101  
CDC Normandy flax, 425  
CDC Valour flax, 427  
glyphosate residues in field pea, barley and flax, 485
- Flow cytometry, 231
- Flower loss  
flower and fruit loss in cherry, 157
- Flower production  
climatic factor effects on cotton production, 499
- Flowering phenology  
caraway flowering and honey bee foraging activity, 203
- Forage  
shoot to root ratios of forage crops, 731
- Forage oat (spring)  
Murphy oat, 555
- Forage production  
legume-shrub mixtures for forage production, 357
- Forage quality  
legume-shrub mixtures for forage production, 357  
winter forage quality of range grasses, 329
- Forage yield  
short-lived intercrop forages affect perennial forage yields, 67
- Foxtail barley  
foxtail barley suppression, 89
- Foxtail, creeping  
foxtail barley suppression, 89
- Fragaria × ananassa*, 231
- Fruit breeding, 231
- Fruit weight, mean, 231
- Fruit loss  
lower and fruit loss in cherry, 157
- Fungicide  
alfalfa seedbed preparation, 371  
leaf spotting diseases affect wheat yield and seed traits, 507
- Fusarium*  
alfalfa seedbed preparation, 371  
fusarium in alfalfa harvested in autumn, 621
- Gas chromatography  
metribuzin and trifluralin residues in faba bean, 257
- Gene *sr-1*  
a naked oat mutant with very short rachillas, 83
- Generic variation  
IVMD and RUP in alfalfa leaves and stems, 383
- Genotype  
genotype and environment effect on chickpea canning quality, 267
- Germination, 232
- Germination percentage  
salicylates and germination promotion at low temperature, 443
- Germplasm  
CDC EMDR-4, CDC EMDR-9, and CDC EMDR-14 spring wheats, 411  
morphological variation of *Phalaris* sp., 85  
line 211 spring wheat, 127  
W98616 white-seeded spring wheat, 129
- Ghana, 227
- Ginseng, 232
- Glucosinolate  
myrosinase activity in *B. juncea* progenies, 579
- Glycine max* (see Soybean)
- Glyphosate  
timing of glyphosate application in direct-seeding systems, 611
- Glyphosate residues  
glyphosate residues in field pea, barley and flax, 485
- Gomasho, 225
- Grain cadmium concentration  
cadmium and other elements in durum grain, 27
- Grain monolayer  
detection of *Cryptolestes ferrugineus* in stored grain, 591
- Grain yield  
cadmium and other elements in durum grain, 27
- Grape, 227  
weather and grape production, 755
- Grass  
leaf development of grasses, 747  
winter survival of grasses, 701
- Grass, perennial  
root growth, appearance and disappearance in perennial grasses, 539
- Grass, range  
winter forage quality of range grasses, 329
- Grass seed crops  
determination of moisture in grass seeds, 401
- Grass seed production  
maintenance and rejuvenation of red fescue seed stands, 709
- Grass, warm season  
stomatal variability of native warm-season grasses, 349
- Grazing  
leaf development of grasses, 747
- Grazing season, extended  
winter forage quality of range grasses, 329
- Grazing systems  
grazing tolerance of alfalfa, 337
- Grazing tolerance  
grazing tolerance of alfalfa, 337
- Green manure  
grain yield and N benefits from single-year legumes, 53
- Greenhouse  
tomato in open or closed rockwool system, 771
- Growth promotion  
effects of *Bacillus cereus* UW85 on grain legumes, 291, 283
- Growth, root  
root growth, appearance and disappearance in perennial grasses, 539
- Growth stages  
lowbush blueberry response to hexazinone, 781
- Gypsum  
effect of gypsum on rutabaga, 785
- Harvest management  
fusarium in alfalfa harvested in autumn, 621
- Harvest, time of  
determination of moisture in grass seeds, 401
- Haynaldia villosa*  
resistance to rust, mildew and wheat curl mite, 451
- Heartnut, 232
- Heat stress  
rough fescue (*Festuca campestris* Rydb.) response to heat injury, 721  
weather and grape production, 755
- Height  
barley mixtures and yield, 1
- Herbicide  
banded herbicides in potatoes, 617
- Herbicide injury  
lowbush blueberry response to hexazinone, 781  
sweet corn tolerance to primisul furon, 261

- Herbicide residue  
metribuzin and trifluralin residues in faba bean, 257
- Herbicide resistance  
herbicide-resistant wild oat, 463  
wild oat response to herbicides in canola, 797
- Hexazinone  
herbicide effect on Canada thistle varieties, 625  
lowbush blueberry response to hexazinone, 781
- History, 227
- Hive weights  
caraway flowering and honey bee foraging activity, 203
- Honey  
caraway flowering and honey bee foraging activity, 203  
characterization of honeys, 75
- Hordeum vulgare* L. (see Barley)
- Hybrid canola  
competitiveness of canola with wild oat, 473
- Hybrides  
rendement et valeur nutritive du maïs fourrager, 319
- Hydro-distillation, 231
- 5-hydroxybenzimidazole  
AMBIOL and drought acclimation, 195
- Imazethapyr  
herbicide injury and planting date affect soybean yield, 249
- Immature fruit loss  
flower and fruit loss in cherry, 157
- Industry, 227
- Inheritance  
inheritance of stem solidness in wheat, 661  
myrosinase activity in *B. juncea* progenies, 579
- Injury, winter  
weather and grape production, 755
- Inoculant failure  
inoculation failure of field pea and chickpea, 273
- Insect damage  
flower and fruit loss in cherry, 157
- Interspecific hybridization  
backcross progenies of *T. medium* × *T. pratense*, 395
- Iris versicolor*, 232
- Irrigation, 226  
effect of water on weed seedling emergence, 855
- Juice and cider, 231
- $K^+/\text{Na}^+$   
metabolisme du stress salin chez la tomate, 177
- Kabuli chickpea  
genotype and environment effect on chickpea canning quality, 267
- Kaolin  
bean response to hydrophobic mineral particles, 217
- Kernel moisture  
moisture in maize kernels at physiological maturity, 549
- Lamb's-quarters  
susceptibility of weeds to UV-B radiation, 789
- Larval extraction  
detection of *Cryptolestes ferrugineus* in stored grain, 591
- Leaf  
IVDMD and RUP in alfalfa leaves and stems, 383  
leaf development of grasses, 747
- Leaf spotting diseases  
leaf spotting diseases affect wheat yield and seed traits, 507
- Legume  
effects of *Bacillus cereus* UW85 on grain legumes, 283, 291  
grain yield and N benefits from single-year legumes, 53  
legume-shrub mixtures for forage production, 357
- Lens culinaris* (see Lentil)
- Lentil  
CDC Glamis lentil, 103  
CDC Grandora lentil, 105  
CDC Robin lentil, 111  
CDC Sovereign lentil, 107  
CDC Vantage lentil, 109
- Leymus angustus*  
short-lived intercrop forages affect perennial forage yields, 67
- Liming  
soil pH and potato scab, 583
- Linum usitatissimum* L. (see Flax)
- Lycopersicon esculentum* L. (see Tomato)
- Maïs fourrager  
rendement et valeur nutritive du maïs fourrager, 319
- Malus × domestica* Borkh. (see Apple)
- Manure, green  
grain yield and N benefits from single-year legumes, 53
- Maturity  
barley mixtures and yield, 1  
neural networks to predict wheat maturity, 7
- Meadow bromegrass  
winter survival of grasses, 701
- Mechanical rejuvenation  
maintenance and rejuvenation of red fescue seed stands, 709
- Mechanical treatments  
economics of clubmoss control, 739
- Medicago sativa* L. (see Alfalfa)
- Melissopalynology  
characterization of honeys, 75
- Meta-topolin  
growth response to meta-topolin, 191
- Metribuzin  
herbicide injury and planting date affect soybean yield, 249  
metribuzin and trifluralin residues in faba bean, 257
- Microclimate  
stubble height effects on pulse yields, 681
- Milk line  
moisture in maize kernels at physiological maturity, 549
- Mixture, alternate-row/same row barley mixtures and yield, 1
- Model  
neural networks to predict wheat maturity, 7
- Morphological traits  
morphological variation of *Phalaris* sp., 85
- Mortality  
rough fescue (*Festuca campestris* Rydb.) response to heat injury, 721
- Mulch, 226
- Mutant  
a naked oat mutant with very short rachillas, 83
- Myrosinase  
myrosinase activity in *B. juncea* progenies, 579
- Myrosinase activity  
myrosinase activity in *B. juncea* progenies, 579
- $\text{Na}^+$  uptake  
pea root biomass estimation using xylem sap  $\text{Na}^+$ , 567
- Naked oat  
a naked oat mutant with very short rachillas, 83

- Native shrub  
legume-shrub mixtures for forage production, 357
- Navigator®*  
Renegade BX summer oilseed rape, 435
- Nebraska Sandhills  
stomatal variability of native warm-season grasses, 349
- Neural networks  
neural networks to predict wheat maturity, 7
- Neutral detergent fibre  
*Bromus-poa* response to defoliation, 365  
weed management in perennial cereal rye, 457
- Newfoundland  
rutabaga in eastern Canada, 221
- Nicotiana tabacum* L. (see Tobacco)
- Nitrogen, 225, 226  
grain yield and N benefits from single-year legumes, 53  
inoculation failure of field pea and chickpea, 273
- Nitrogen cycling  
cropping sequence affects wheat productivity, 307
- Nitrogen fertilizer management  
N fertilizer placement for canola, 15  
N management and tillage effects in canola, 629
- Nodulation  
effects of *Bacillus cereus* UW85 on grain legumes, 283
- Non-linear regression  
effects of tartary buckwheat on barley, 861  
yield-density relationship in bean, 521
- Non-target crops  
herbicides in rainfall affecting sensitive crops, 481
- Noodle colour  
AC2000 hard white spring wheat, 415
- Northern Mixed Prairie  
economics of clubmoss control, 739
- Nuclear magnetic resonance imaging  
water distribution in soybean seeds, 513
- Nursery crops, 226
- Nutrient management, 226
- Oat  
Murphy oat, 555  
naked oat mutant with very short rachillas, 83
- short-lived intercrop forages affect perennial forage yields, 67  
*Oenothera biennis*, 232
- Oil content  
Kelsey summer rape, 559  
P fertility of fall and spring seeded canola, 21
- Oil recovery rate, 231
- Oilseed  
CDC Arras flax, 99  
CDC Bethune flax, 101  
CDC Normandy flax, 425  
CDC Valour flax, 427  
Renegade BX summer oilseed rape, 435
- Oilseed potential  
*Thlaspi arvense* L. (updated), 803
- Oilseed rape (summer)  
Renegade BX summer oilseed rape, 435
- Opener type  
field pea seeding management, 639
- Orchardgrass  
winter survival of grasses, 701
- Ornamental, 226
- Ornamental trees, 226
- Palynology  
characterization of honeys, 75
- Pea  
CDC Handel field pea, 117  
CDC Minuet field pea, 113  
CDC Montero field pea, 121  
CDC Mozart field pea, 429  
CDC Verdi field pea, 433  
DS Admiral field pea, 751  
DS Dominator field pea, 753  
effects of *Bacillus cereus* UW85 on grain legumes, 283  
emergence and yields of chickpea and dry pea, 531  
field pea seeding management, 639  
glyphosate residues in field pea, barley and flax, 485  
inoculant and seed fungicide for field pea, 645  
inoculation failure of field pea and chickpea, 273  
pea root biomass estimation using xylem sap  $\text{Na}^+$ , 567  
resistance to rust in field pea, 253
- Perennial cereal rye  
weed management in perennial cereal rye, 457
- Perennial grasses  
root growth, appearance and disappearance in perennial grasses, 539
- Peroxidase  
growth response to *meta-topolin*, 191
- Persistence  
grazing tolerance of alfalfa, 337
- Petiole spotting, 225
- Phalaris*  
morphological variation of *Phalaris* sp., 85
- Phaseolus vulgaris* L. (see Bean)
- Phenotype  
barley mixtures and yield, 1
- Phenoxy herbicides  
herbicides in rainfall affecting sensitive crops, 481
- Phoma*  
alfalfa seedbed preparation, 371
- Phosphorus, 225
- Photosynthesis  
bean response to hydrophobic mineral particles, 217
- Pin cherry  
flower and fruit loss in cherry, 157
- Pisum sativum* L. (see Pea)
- Placement methods  
correcting S deficiency in canola in the growing season, 665
- Plant arrangement  
field pea seeding management, 639
- Plant height  
morphological characteristics of crested wheatgrass, 693
- Plasmiodiphora brassicae*  
rutabaga in eastern Canada, 221
- Ploidy, 231
- Poa*  
residue management increases seed yield, 687
- Poa alpina* L. (see Bluegrass, Alpine)
- Poa pratensis*  
*Bromus-poa* response to defoliation, 365
- Pod, fertile  
emergence and yields of chickpea and dry pea, 531
- Pollen-trap collection  
caraway flowering and honey bee foraging activity, 203
- Pollination  
flower and fruit loss in cherry, 157
- Polyamine  
growth response to *meta-topolin*, 191
- Polygonum persicaria*  
susceptibility of weeds to UV-B radiation, 789
- Polyplodiy  
morphological characteristics of crested wheatgrass, 693

- Potato  
 banded herbicides in potatoes, 617  
 management of potato scab, 185
- Potato scab  
 management of potato scab, 185  
 soil pH and potato scab, 583
- Powdery mildew resistance  
 AC Vision barley, 551  
 CDC Handel field pea, 117  
 CDC Minuet field pea, 113  
 CDC Montero field pea, 121  
 CDC Mozart field pea, 429  
 DS Admiral field pea, 751  
 DS Dominator field pea, 753
- Power-harrowing  
 maintenance and rejuvenation of red fescue seed stands, 709
- Prairie, Canadian  
 neural networks to predict wheat maturity, 7
- Prairie, northern mixed  
 economics of clubmoss control, 739
- Preharvest sprouting resistance  
 AC2000 hard white spring wheat, 415  
 CDC EMDR-4, CDC EMDR-9, and CDC EMDR-14 spring wheats, 411  
 line 211 spring wheat, 127  
 W98616 white-seeded spring wheat, 129
- Preharvest treatment  
 glyphosate residues in field pea, barley and flax, 485
- Priming, 232
- Primisulfuron  
 sweet corn tolerance to primisulfuron, 261
- Processing  
 row arrangement and plant density of processing tomato, 765
- Proline  
 metabolism du stress salin chez la tomate, 177
- Protein  
 N management of spring milling wheat, 653
- Pruning, 227
- Prunus avium*, 229
- Psathyrostachys juncea*  
 short-lived intercrop forages affect perennial forage yields, 67
- Puccinia striiformis*  
 resistance to rust, mildew and wheat curl mite, 451
- Pulse crop  
 cropping sequence affects wheat productivity, 307
- stubble height effects on pulse yields, 681
- Pythium*  
 alfalfa seedbed preparation, 371
- Quackgrass  
 banded herbicides in potatoes, 617
- Quality  
 yield and dry matter of recent Canadian spring wheat cultivars, 299
- Quebec, 227
- Rachilla, very short  
 a naked oat mutant with very short rachillas, 83
- Radish cotyledon  
 growth response to *meta-topolin*, 191
- Radish, wild  
 banded herbicides in potatoes, 617
- Rain  
 herbicides in rainfall affecting sensitive crops, 481  
 rain-induced fruit cracking, 229
- Range grasses  
 winter forage quality of range grasses, 329
- Range improvements  
 economics of clubmoss control, 739
- Range management  
 economics of clubmoss control, 739
- Rape (summer)  
 Kelsey summer rape, 559
- Raphanus raphanistrum* L.  
 banded herbicides in potatoes, 617
- Raspberry, 231
- Rate of germination  
 salicylates and germination promotion at low temperature, 443
- Reclamation  
 AEC Glacier alpine bluegrass, 95
- Récoltes tardives  
 rendement et valeur nutritive du maïs fourrager, 319
- Recycling  
 tomato in open or closed rockwool system, 771
- Red clover  
 N management of spring milling wheat, 653
- Red winter wheat  
 AC Grandview winter wheat, 421
- Redroot pigweed  
 susceptibility of weeds to UV-B radiation, 789
- Reduced tillage  
 timing of glyphosate application in direct-seeding systems, 611
- Regrowth  
 leaf development of grasses, 747
- Rejuvenation of creeping red fescue  
 maintenance and rejuvenation of red fescue seed stands, 709
- Rejuvenation, mechanical  
 maintenance and rejuvenation of red fescue seed stands, 709
- Relative time of emergence  
 effects of tartary buckwheat on barley, 861
- Rendement  
 effet de la densité de peuplement sur soya, 675
- rendement et valeur nutritive du maïs fourrager, 319
- Replacement series  
 competitiveness of canola with wild oat, 473
- Resistance  
 resistance to rust in field pea, 253
- Rockwool  
 tomato in open or closed rockwool system, 771
- Root and crown rot  
 fusarium in alfalfa harvested in autumn, 621
- Root biomass  
 pea root biomass estimation using xylem sap  $\text{Na}^+$ , 567  
 shoot to root ratios of forage crops, 731
- Root growth  
 root growth, appearance and disappearance in perennial grasses, 539
- Rot, root and crown  
 fusarium in alfalfa harvested in autumn, 621
- Rotary cultivation  
 maintenance and rejuvenation of red fescue seed stands, 709
- Roundup Ready®  
 Kelsey summer rape, 559
- Row, narrow  
 yield-density relationship in bean, 521
- Row seeding  
 P fertility of fall and spring seeded canola, 21
- Row spacing  
 field pea seeding management, 639  
 residue management increases seed yield, 687
- Ruminal undegradable proteins  
 IVMD and RUP in alfalfa leaves and stems, 383

- Rust  
resistance to rust in field pea, 253
- Rust, stripe  
resistance to rust, mildew and wheat curl mite, 451
- Rutabaga  
effect of gypsum on rutabaga, 785  
rutabaga brown-heart control, 561  
rutabaga in eastern Canada, 221
- Rye, perennial cereal  
weed management in perennial cereal rye, 457
- Salicylates  
salicylates and germination promotion at low temperature, 443
- Salinity  
foxtail barley suppression, 89
- Saltbush  
legume-shrub mixtures for forage production, 357
- Saskatchewan  
yield-density relationship in bean, 521
- Sawfly  
inheritance of stem solidness in wheat, 661
- Scab, common  
management of potato scab, 185  
soil pH and potato scab, 583
- Scab resistance, 231
- Scientific societies, 227
- Seed dormancy  
CDC EMDR-4, CDC EMDR-9, and CDC EMDR-14 spring wheats, 411  
line 211 spring wheat, 127
- Seed moisture measurement  
determination of moisture in grass seeds, 401
- Seed production  
residue management increases seed yield, 687
- Seed quality  
correcting S deficiency in canola in the growing season, 665
- Seed size  
emergence and yields of chickpea and dry pea, 531
- Seed treatment  
alfalfa seedbed preparation, 371
- Seed yield  
agronomic performance of different stature sunflower, 43  
drought resistance in common bean, 491
- Seeding, broadcast  
P fertility of fall and spring seeded canola, 21
- Seeding date  
emergence and yields of chickpea and dry pea, 531  
N fertilizer placement for canola, 15  
P fertility of fall and spring seeded canola, 21
- Seeding rate  
field pea seeding management, 639  
yield-density relationship in bean, 521
- Selaginella densa* Rydb.  
economics of clubmoss control, 739
- Selection pressure  
wild oat response to herbicides in canola, 797
- Sensitivity  
sweet corn tolerance to primisulfuron, 261
- Sensory evaluation  
apple fruit size preference, 165
- Sequence tagged sites  
identification of Canadian durum wheat cultivars, 35
- Setaria viridis*  
susceptibility of weeds to UV-B radiation, 789
- Shelf life, 231
- Shepherd's-purse  
susceptibility of weeds to UV-B radiation, 789
- Shoot to root ratios  
shoot to root ratios of forage crops, 731
- Six-rowed barley  
AC Maple barley, 93
- Smooth bromegrass  
winter survival of grasses, 701
- Soil and leaf nutrient concentrations, 225
- Soil moisture  
effect of water on weed seedling emergence, 855
- Soil organic matter  
shoot to root ratios of forage crops, 731
- Solanum tuberosum* L. (see Potato)
- Solid-seeded  
yield-density relationship in bean, 521
- Solid-stemmed  
inheritance of stem solidness in wheat, 661
- Soluble solids  
row arrangement and plant density of processing tomato, 765
- Somaclonal variation  
CDC Normandy flax, 425
- Soya  
effet de la densité de peuplement sur soya, 675
- Soybean  
effects of *Bacillus cereus* UW85 on grain legumes, 283, 291  
herbicide injury and planting date affect soybean yield, 249  
water distribution in soybean seeds, 513
- Spectral reflectance  
inoculation failure of field pea and chickpea, 273
- Spray conditions  
chemical thinning of apples unaffected by spray timing, 437
- Spergula arvensis* L.  
banded herbicides in potatoes, 617
- Sprouting resistance, pre-harvest AC2000 hard white spring wheat, 415  
CDC EMDR-4, CDC EMDR-9, and CDC EMDR-14 spring wheats, 411  
line 211 spring wheat, 127  
W98616 white-seeded spring wheat, 129
- Stem  
IVDMD and RUP in alfalfa leaves and stems, 383
- Stinkweed  
*Thlaspi arvense* L. (updated), 803
- Stipa* species  
root growth, appearance and disappearance in perennial grasses, 539
- Stomatal characteristics  
stomatal variability of native warm-season grasses, 349
- Stratification, 232
- Streptomyces scabies*  
management of potato scab, 185  
soil pH and potato scab, 583
- Stress, heat  
rough fescue (*Festuca campestris* Rydb.) response to heat injury, 721  
weather and grape production, 755
- Stress, saline  
metabolisme du stress salin chez la tomate, 177
- Stress, water  
root growth, appearance and disappearance in perennial grasses, 539  
stomatal variability of native warm-season grasses, 349
- Stripe rust  
resistance to rust, mildew and wheat curl mite, 451

- Stubble height  
stubble height effects on pulse yields, 681
- Stunting  
herbicide injury and planting date affect soybean yield, 249
- Sub-lethal effects  
herbicides in rainfall affecting sensitive crops, 481
- Sulphate  
sulphur and root maggots in canola, 599
- Sulphur, elemental  
effect of gypsum on rutabaga, 785  
sulphur and root maggots in canola, 599
- Sulphur index  
correcting S deficiency in canola in the growing season, 665
- Sulphur rate  
correcting S deficiency in canola in the growing season, 665
- Sunflower, dwarf  
agronomic performance of different stature sunflower, 43
- Sunola  
agronomic performance of different stature sunflower, 43
- Survey  
herbicide-resistant wild oat, 463
- Swathing  
determination of moisture in grass seeds, 401
- Swede  
rutabaga in eastern Canada, 221
- Synthetic  
ACS-C7 summer turnip rape, 123
- Tall fescue  
foxtail barley suppression, 89
- Taraxacum officinale* G. H. Weber ex Wiggers, 825
- Thifensulfuron  
herbicide injury and planting date affect soybean yield, 249
- Thiram (dithiocarbamate)  
inoculant and seed fungicide for field pea, 645
- Thlaspi arvense* L. (updated), 803
- Thompson Laurentian  
rutabaga brown-heart control, 561
- Thrip, 226
- Thuja occidentalis* L.  
rusticité et croissance de *Thuja occidentalis* L. et de cinq cultivars, 169
- Tillage, conservation  
N management and tillage effects in canola, 629
- Tillage, reduced  
timing of glyphosate application in direct-seeding systems, 611
- Tillage, zero  
inoculant and seed fungicide for field pea, 645
- Tiller  
rough fescue (*Festuca campestris* Rydb.) response to heat injury, 721
- Tiller characteristics  
morphological characteristics of crested wheatgrass, 693
- Time of harvest  
determination of moisture in grass seeds, 401
- Timothy  
winter survival of grasses, 701
- Tobacco  
CT144 flue-cured tobacco, 587  
CT572 flue-cured tobacco, 589
- Tolérance au froid  
rusticité et croissance de *Thuja occidentalis* L. et de cinq cultivars, 169
- Tomate  
metabolisme du stress salin chez la tomate, 177
- Tomato  
tomato in open or closed rockwool system, 771  
row arrangement and plant density of processing tomato, 765
- Trellising, 227
- Trichoderma*, 232
- Trifluralin  
metribuzin and trifluralin residues in faba bean, 257
- Trifolium medium*  
backcross progenies of *T. medium* × *T. pratense*, 395
- Trifolium pratense*  
backcross progenies of *T. medium* × *T. pratense*, 395  
N management of spring milling wheat, 653
- Triticum aestivum* L. (see Wheat)
- Triticum turgidum* L. var. *durum* (see Wheat, Durum)
- Turfgrass  
residue management increases seed yield, 687
- Turnip rape (summer)  
ACS-C7 summer turnip rape, 123
- Ultraviolet-B  
susceptibility of weeds to UV-B radiation, 789
- Underseeding  
N management of spring milling wheat, 653
- Uromyces fabae*  
resistance to rust in field pea, 253
- Vaccinium angustifolium* Ait. (see Blueberry)
- Valeur nutritive  
rendement et valeur nutritive du maïs fourrager, 319
- Variety *horridum*  
herbicide effect on Canada thistle varieties, 625
- Variety *integerrimum*  
herbicide effect on Canada thistle varieties, 625
- Vegetable, 227
- Venturia inaequalis*, 231
- Vicia faba* L. (see Faba bean)
- Vine size, 227
- Viper's bugloss  
*Echium vulgare* L., 235
- Vitis vinifera* L. (see Grape)
- Warm season grasses  
stomatal variability of native warm-season grasses, 349
- Water  
*Bromus-poa* response to defoliation, 365
- Water bath  
rough fescue (*Festuca campestris* Rydb.) response to heat injury, 721
- Water distribution  
water distribution in soybean seeds, 513
- Water imbibition  
water distribution in soybean seeds, 513
- Water stress  
root growth, appearance and disappearance in perennial grasses, 539  
stomatal variability of native warm-season grasses, 349
- Water use  
cropping sequence affects wheat productivity, 307
- Water use efficiency  
agronomic performance of different stature sunflower, 43
- Weather  
neural networks to predict wheat maturity, 7
- Weed biology  
*Echium vulgare* L., 235  
*Taraxacum officinale* G. H. Weber ex Wiggers, 825

- Thlaspi arvense* L. (updated), 803
- Weed control
  - lowbush blueberry response to hexazinone, 781
  - timing of glyphosate application in direct-seeding systems, 611
  - weed management in perennial cereal rye, 457
- Weed emergence
  - effect of water on weed seedling emergence, 855
- Weed management
  - weed management in perennial cereal rye, 457
- Weed sleeve, 226
- Weed suppression
  - foxtail barley suppression, 89
- Wet soils
  - foxtail barley suppression, 89
- Wheat
  - leaf spotting diseases affect wheat yield and seed traits, 507
  - neural networks to predict wheat maturity, 7
  - plot combine modified for harvesting single rows, 153
  - timing of glyphosate application in direct-seeding systems, 611
  - yield and dry matter of recent Canadian spring wheat cultivars, 299
- Wheat curl mite
  - resistance to rust, mildew and wheat curl mite, 451
- Wheat, Durum
  - cadmium and other elements in durum grain, 27
  - identification of Canadian durum wheat cultivars, 35
  - inheritance of stem solidness in wheat, 661
- Wheat, hard white spring
  - AC2000 hard white spring wheat, 415
- Wheat, red winter
  - AC Grandview winter wheat, 421
- Wheat, spring
  - CDC EMDR-4, CDC EMDR-9, and CDC EMDR-14 spring wheats, 411
  - cropping sequence affects wheat productivity, 307
  - line 211 spring wheat, 127
  - N management of spring milling wheat, 653
  - W98616 white-seeded spring wheat, 129
  - yield and dry matter of recent Canadian spring wheat cultivars, 299
- Wheat, winter
  - AC Grandview winter wheat, 421
- CDC raptor winter wheat, 407
- Wheatgrass, crested
  - morphological characteristics of crested wheatgrass, 693
- Wild radish
  - banded herbicides in potatoes, 617
- Winter forage quality
  - winter forage quality of range grasses, 329
- Winter injury
  - weather and grape production, 755
- Winterfat
  - legume-shrub mixtures for forage production, 357
- Xylem delivery
  - pea root biomass estimation using xylem sap  $\text{Na}^+$ , 567
- Yield components
  - yield-density relationship in bean, 521
- York
  - rutabaga brown-heart control, 561
- Zea mays* L. (see Corn)
- Zero tillage
  - inoculant and seed fungicide for field pea, 645

